

# Notice of Allowability

Application No.

10/523,141

Examiner

Maria Veronica D. Ewald

Applicant(s)

CHUN ET AL.

Art Unit

1791

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/8/07.
2. ☒ The allowed claim(s) is/are 1,3-9,11-13 and 15-22.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

***Allowable Subject Matter***

Claims 1, 3 – 9, 11 – 13, and 15 – 22 are allowed. The following is an examiner's statement of reasons for allowance: Applicant argued, with respect to newly-amended claim 1, that the references of Kleinmeyer, et al. (U.S. 2002/0089094 A1) and Lee, et al. (U.S. 2002/0122840 A1) do not teach the structural limitations as claimed. Specifically, Kleinmeyer, et al. do not teach at least one spinning nozzle pack, wherein a plurality of spinning nozzles are arranged in series, wherein there is a control unit positioned at both longitudinal sides of the spinning nozzle pack, further configured with an induction unit positioned between the control unit and the collector and a carrier unit carrying a pilling material to which the charged filaments is to be adhered and is positioned above the collector. Examiner agrees. Kleinmeyer, et al. do not teach the above structural components. Kleinmeyer, et al. merely teach a die with a plurality of individual capillaries, through which charged filaments are discharged and collected upon a surface. Furthermore, the filaments pass through a series of electrostatically biased electrodes. With respect to the reference of Lee, et al., the reference teaches a spinning nozzle pack with a plurality of nozzles, on which the edges are surrounded by a conductor board and the discharged filaments collected on a rotating belt; however, Lee, et al. fail to teach that the spinning nozzle pack is comprised of nozzles arranged in series with a control unit on both longitudinal sides of the nozzle pack, a carrier unit positioned above the collector, and an induction unit between the control unit and collector.

With respect to independent claim 11, Applicant has incorporated allowable subject matter indicated by the Examiner in the previous office action. As stated previously, prior art fails to teach or suggest, either alone or in combination, a spinning nozzle pack, wherein the electric connector is made in a shape of a conductor board or a stick of a predetermined length and has valleys and ridges periodically formed along a longitudinal direction thereof, and wherein the ridges are fit on the center of the spinning nozzles. Though the closest prior art reference of Kleinmeyer, et al. (U.S. 2002/0089094 A1) teaches an electrode mounted in the polymer solution such that the solution exits the nozzles or orifices in a charged state, Kleinmeyer, et al. fail to teach the configuration of the electrode wherein the electrode is specifically mounted on the spinning nozzles.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maria Veronica D. Ewald whose telephone number is 571-272-8519. The examiner can normally be reached on M-F, 8 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Yogendra Gupta can be reached on 571-272-1316. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Robert B. Davis/  
Primary Examiner  
Art Unit 1791  
December 21, 2007

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